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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,578	04/20/2001	Alexander Aptus	300136300016	9138
4678	7590	07/13/2005	EXAMINER	
MACCORD MASON PLLC 300 N. GREENE STREET, SUITE 1600 P. O. BOX 2974 GREENSBORO, NC 27402			VO, TED T	
			ART UNIT	PAPER NUMBER
			2192	

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/838,578	Applicant(s) APLUS ET AL
	Examiner Ted T. Vo	Art Unit 2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 05 May 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-5,7,8 and 12-21 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1,3-5,7,8 and 12-21 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
6) <input type="checkbox"/> Other: _____ |
|---|---|

DETAILED ACTION

1. This action is in response to the amendment filed as RCE on 05/05/2005.

Claims 1, 3-5, 7-8, 12-21 are pending in the application.

Specification

2. It requires updating information in all blanks in the specification (p.1-2) as soon as the information is available.

Response to Argument

3. Applicant's arguments with respect to claims 1, 3-5, 7-8, 12-21 have been considered. The action is non-final. The arguments are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1, 3-5, 7-8, 12-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al., "Managing the software design documents with XML", 1998.

Given the broadest reasonable interpretation of followed claims in light of the specification.

As per Claim 1: Suzuki discloses using UML associated with XML/HTML to mange and design documentations. The teaching covers the limitations:

A method in a data processing system for generating

documentation for a source code, the method comprising the steps of:

identifying the language of the source code (See Figure 1: Programming Language → UML

Exchange Format),

obtain a template for the language; parsing the source code (See page 131, sec. 4.2.3);

"generating a textual documentation that describes the source code, the textual

documentation having portions that correspond to portions of the source code; (Case tool like

Rational Rose™)

generating a diagram including at least one diagram element that visually represents

the corresponding portion of the source code; (Case tool like Rational Rose™, see sec. 2.)

'diagrams') and

correlating the diagram elements to the corresponding portions of the textual documentation by
providing hyperlinked references in the diagram that link diagram elements (see Figure 1, hyperlinked
online help. See p.129, sec. 2.3, second paragraph, refer to 'Xpointer', 'Xlink', 'define anchors and links
within XML documents', 'linking mechanism', etc.)

to the corresponding portions of the textual documentation" (See Figure 1, see section 2.1 in
page 128; particularly see sec. 5.2 (p.133) using Rational Rose™) (Examiner note: Rational Rose™ is
known as a case tool used for generating textual documentations using UML).

As per Claim 3: Suzuki discloses

diagram comprises generating a graphics interchange format (GIF) image of each diagram

element and generating an image map for an image of the diagram element images. (See page

128, section 2.1: refer to Class diagram, Object diagram, and all other diagrams listed in this section,

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particularly see the bullet 'Notations', in the right column. Further see XML browser in Figure 2, and see sec. 5.2 (p.133) Rational Rose™ (Examiner note: Graphics elements seen in a web browser at the time of the application are usually in the types of .GIF or .JPG; these types of images are generated by an independent GIF tool, or use cut/paste of an preexisting image, and then embed them in XML/HTML tags: The limitations just recite an act common used and seen in web created activities).

As per Claim 15: Suzuki discloses, *The method of claim 1, wherein the documentation is hypertext markup language (HTML) documentation displayable by a web browser* (See sec. 2.2 (p.128-129)).

As per Claim 16: Suzuki discloses, *The method of claim 1, wherein the links between the diagram portion and the text portion are hypertext mark up language (HTML) links* (See p.129, sec. 2.3, particularly refer to 'linking mechanism', second line from the bottom of left column).

As per Claim 4: Claim 4 is a system claim in which the limitations have the functionality corresponding to the functionality of the method Claim 1. Claim 4 is rejected in the same rationale set for the in Claim 1 above.

As per Claim 17: is rejected as having the same rationale set for the in Claim 15 above.

As per Claim 18: is rejected as having the same rationale set for the in Claim 16 above.

As per Claim 5: Claim 5 is a computer-readable claim in which the limitations have the functionality corresponding to the functionality of the method Claim 1. Claim 5 is rejected in the same rationale set for the in Claim 1 above.

As per Claim 7: Claim 7 is a computer-readable claim in which the limitations have the functionality corresponding to the functionality of the method Claim 3. Claim 5 is rejected in the same rationale set for the in Claim 1 above.

As per Claim 19: is rejected as having the same rationale set for the in Claim 15 above.

As per Claim 20: is rejected as having the same rationale set for the in Claim 16 above.

As Per Claim 8: Suzuki discloses a data processing system, comprising *secondary storage device containing a software project, the software project comprising source code* (See page 127, right column, lines 7-8; See Figure 1: Programming Languages Reversing engineering tools; See Figure 2, see page 134, right column, line 27), *a memory comprising a software development tool that identifies the language of the source code, obtains a template for the language, parses the source code, and generates a documentation that describes the source code* (See Figure 1: Programming Language → UML Exchange Format. See page 131, sec. 4.2.3), the *documentation including a diagram portion and a text portion and having hypertext markup language (HTML) link between the diagram portion and the text portion* (See p. 128, sec 2.1). Further see page 129, left col: 2-20); and *a processor for running the software development tool* (See whole reference).

As per Claim 21: Claim 21 is method claim in which the limitations have the functionality corresponding to the functionality of the method Claim 1. Claim 21 is rejected in the same rationale set for the in Claim 1 above.

As per Claim 12: is rejected as having the same rationale set for the in Claim 15 above.

As per Claim 13: is rejected as having the same rationale set for the in Claim 3 above.

As per Claim 14: Suzuki discloses *The method of claim 21, wherein the step of mapping the images comprises mapping the images into rectangular regions* (See Figure 1, UML Exchange Format see section 2.1 in page 128; particularly see sec. 5.2 (p.133) using Rational Rose™) (Examiner note: UML diagrams are *rectangular regions*).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
Petry, "GETTING THE MOST OUT OF LEGACY CODE – The uses of HyperCode within a typical IS organization", discloses the HyperCode that can be described as a rendering of

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program source code in a HyperText-linked format that allows for easy navigation through complex procedure calls and data declarations. In a software maintenance environment, **Rational the e-development company**, "Mapping Object to Data Models with the UML", discloses generating textual documentations using UML.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (571) 272-3706. The examiner can normally be reached on 8:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3694.

The Central Facsimile (FAX) Number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300. Faxes sent to the old number will be routed to the new number until September 15, 2005. After September 15, 2005, the old number will no longer be in service and 571-273-8300 will be the only facsimile number recognized for "centralized delivery."

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ted T. Vo
Primary Examiner
Art Unit 2192
July 8, 2005